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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/660,824	09/13/2000	Alan Rowe	103.1046.01	7793	
22883	7590 04/23/2004		EXAMINER		
SWERNOFSKY LAW GROUP PC P.O. BOX 390013			HOANG, PHUONG N		
	VIEW, CA 94039-0013		ART UNIT PAPER NUMBER		
			2126		
			DATE MAILED: 04/23/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
Office Action Summary		09/660,824	ROWE, ALAN				
		Examiner	Art Unit				
		Phuong N. Hoang	2126				
: ۔۔ Period for I	The MAILING DATE of this communication app Reply	pears on the cover sheet with the c	orrespondence addres	§S			
THE MA - Extension after SIX - If the period of the period	RTENED STATUTORY PERIOD FOR REPLY ALLING DATE OF THIS COMMUNICATION. In sof time may be available under the provisions of 37 CFR 1.1: (6) MONTHS from the mailing date of this communication. Iriod for reply specified above is less than thirty (30) days, a reply ind for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute by received by the Office later than three months after the mailing latent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this commu D (35 U.S.C. § 133).	unication.			
Status							
1)⊠ R	esponsive to communication(s) filed on <u>02 Fe</u>	ebruary 2004.					
2a)⊠ Ti	nis action is FINAL . 2b)☐ This	action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition	of Claims						
4a 5)□ Cl 6)⊠ Cl 7)□ Cl	aim(s) 1 - 47 is/are pending in the application) Of the above claim(s) is/are withdrawaim(s) is/are allowed. aim(s) 1 - 47 is/are rejected. aim(s) is/are objected to. aim(s) are subject to restriction and/or	vn from consideration.					
Application	Papers						
9) <u></u> Th	e specification is objected to by the Examine	r.					
•	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	pplicant may not request that any objection to the						
	eplacement drawing sheet(s) including the correct e oath or declaration is objected to by the Ex	- · · · · · · · · · · · · · · · · · · ·		• •			
Priority und	ler 35 U.S.C. § 119						
a) <u>□</u> 1. 2. 3.	knowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority documents Certified copies of the priority documents Copies of the certified copies of the priority documents application from the International Bureause the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Sta	ge			
Attachment(s)							
2) Notice of Notice of Informat	f References Cited (PTO-892) f Draftsperson's Patent Drawing Review (PTO-948) ion Disclosure Statement(s) (PTO-1449 or PTO/SB/08) o(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		?)			

Page 2

Application/Control Number: 09/660,824

Art Unit: 2126

DETAILED ACTION

1. Claims 1 – 47 are pending for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 1 – 5, 8 – 14, 16 – 19, 21 – 26, 29, 33 – 35, 37 – 40, 42, are rejected under 35 U.S.C. 102(e) as being anticipated by French, US patent no. 6,341,312.

Art Unit: 2126

4. French was cited in the last office action.

5. **As to claim 1**, French teaches a method of operating a file server, comprising the steps of:

receiving a CIFS request (CIFS client access network files system, col. 3 lines 25 – 50);

recording state at that time about the request (state information with respect to the server to which the user is connecting, col. 5 lines 35 – col. 6 line 10);

restoring state upon reboot as last recorded (reconnect without requiring the user to re-enter information, col. 5 and col. 6 lines 1-26);

attempting to continue the CIFS session that the request was part of (reestablish the connections, replays the connections, col. 6 lines 20 - 48).

- 6. **As to claim 2,** French teaches the steps of acknowledging receipt of the CIFS request; processing the CIFS request (session establishment request is stored"permanent", col. 6 lines 5 10).
- 7. **As to claim 3**, French teaches the step of recording state includes determining automatically whether the processing of a CIFS request is at a point where the state can be reliably recorded (it is inherent in maintaing state information).

Application/Control Number: 09/660,824 Page 4

Art Unit: 2126

8. **As to claim 4,** French teaches the step of recording state occurs at points based or the progress of processing of a CIFS request (CIFS, col. 3 lines 25 – 50).

- 9. **As to claim 5,** French teaches the step of wherein the state is recorded to a non-volatile storage (saved to disk, col. 6 lines 43 45).
- 10. **As to claim 8,** French teaches the step of recording state further comprises the step of determining whether the server shutdown was elective or non-elective (an interrupt test outcome is negative or positive, col. 6 lines 10 20).
- 11. **As to claim 9,** French teaches the step of determining whether the server shutdown is elective or non-elective is a function of a flag (test, col. 6 lines 10 20) value stored in the nonvolatile storage (inherent).
- 12. **As to claims 10 and 11,** French teaches the step of the flag value indicates the server shutdown was elective (positive or negative, col. 6 lines 10 20) or non-elective.
- 13. **As to claims 12 and 16,** French teaches the step of wherein the step of recording state further comprises the step of determining whether recovery will be accomplished by rebooting the affected server (the machine is rebooted, col. 6 lines 40 45) or takeover by another server.

14. **As to claims 13 and 17,** French teaches the step of recording state further comprises the step of determining whether recovery will be accomplished by rebooting the affected server (the machine is rebooted, col. 6 lines 40 - 45) or takeover by another server is a function of the flag value (the test outcome, col. 6 lines 10 - 20) stored in the non-volatile storage (inherent).

- 15. **As to claim 14**, French teaches the step of the flag value indicates the recovery will be accomplished by rebooting the affected server (if the outcome is positive, the routine reconnect the client to the server, col. 6 lines 15, 45).
- 16. As to claim 18, French teaches wherein the reboot comprises the steps of: rebooting the affected server's operating system (the machine is rebooted, col. 6 lines 40 45); and

rebuilding in-memory data structures (inherent when the data structures is saved in a disk such that when the machine is rebooted, col. 6 lines 40 - 48) to the state prior to the reboot.

17. **As to claim 19,** French teaches the step of wherein the rebuilding in-memory data structures further comprises fetching the state stored in the non-volatile storage (inherent in a computer) to rebuild the in-memory data structures (inherent when the data structures is saved in a disk such that when rebooted, col. 6 lines 40 - 48).

- 18. **As to claim 21**, French teaches the method of claim 1, wherein the step of attempting to continue the CIFS session that the request was part of further comprises the step of processing the remaining portion of the uncompleted request (replays the connections, col. 6 lines 20 48).
- 19. **As to claim 22**, this is the apparatus claim of claim 1. See rejection for claim 1 above.
- 20. As to claims 23 26, see rejection for claims 2 5 above.
- 21. **As to claim 29,** see rejection for claim 8 above.
- 22. **As to claims 33 35**, see rejection for claims 12 14 above.
- 23. **As to claims 37 40**, see rejection for claims 16 19 above.
- 24. **As to claim 42,** see rejection for claim 21 above.

Application/Control Number: 09/660,824 Page 7

Art Unit: 2126

Claim Rejections - 35 USC § 103

- 25. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 26. Claims 6, 7, 27 28, 30 32, are rejected under 35 U.S.C. 103(a) as being unpatentable over French, US patent no. 6,341,312 in view of Sakakura, US patent no. 6,334,139.
- Sakakura was cited in the last office action.
- 28. **As to claims 6 and 7**, French teaches the steps of recording state occurs as part of an elective reboot (test is negative, col. 6 lines 10 25) or elective takeover of a server further comprising:

ignoring current CIFS requests (one of ordinary skill in the art can recognize that the current request should be temporarily ignored after the interrupt occurs and before trying to process all active requests);

French does explicitly teach processing all active CIFS requests.

Page 8

Application/Control Number: 09/660,824

Art Unit: 2126

Sakakura teaches processing all requests (re-boots the server B; the processing system is also restarted, col. 9 lines 22 – 26).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of French to Sakakura's system because Sakakura's ability processing all requests would provide the system the ability to complete to process the requests after rebooting to speed up the processing system.

- 29. As to claims 27 28, see rejection for claims 6 7 above.
- 30. **As to claims 30 32**, see rejection for claims 9 11 above.
- 31. Claims 43 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Delaney, US patent no. 5,996,086 in view of French, US patent no. 6,341,312.
- 32. **As to claim 43**, Delaney teaches the non-volatile memory having storage capable of holding information, the information including the steps of:

Information identifying the state of a first device (status of the servers, col. 6 lines 19 – 25); and

information identifying a flag value, the flag value indicating the character of a previous operating mode the character identifying a type of server reboot to be affected (col. 7 line 40 – col. 8 line 10).

Art Unit: 2126

Delaney does not teach the step of attempting to continue any active CIFX sessions.

French teaches the step of attempting to continue any active CIFS sessions (reestablish the connections, replays the connections, col. 6 lines 20 – 48 and col. and col. 3 lines 25 - 60).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Delaney to French's system because French's CIFS session would provide an additional choice of protocols to the network for more flexibility and variety of means for accessing to the network system.

- 33. **As to claim 44**, Delaney teaches the step of wherein the flag value is capable of being interpreted to indicate rebooting the first device was an elective function (fo mode stop are initiated by reboot message, col. 8 col. 9).
- 34. **As to claim 45**, Delaney teaches the step of wherein the flag value is capable of being interpreted to indicate rebooting the first device was a non-elective function (fo_mode_failed is initiated by reboot message, col. 8 col. 9).
- 35. **As to claim 46**, Delaney teaches the step of wherein the flag value is capable of being interpreted to indicate takeover of the first device by a second device was an elective function (col. 8 lines 1 10).

Page 9

Application/Control Number: 09/660,824 Page 10

Art Unit: 2126

36. **As to claim 47,** Delaney teaches the step of wherein the flag value is capable of being interpreted to indicate takeover of the first device by a second device was an elective function (col. 8 lines 1 - 10).

- 37. Claims 15, 20, 36, 41, are rejected under 35 U.S.C. 103(a) as being unpatentable over French, US patent no. 6,341,312 in view of Chrabaszcz, US patent no. 6,134,673.
- 38. Chrabaszcz was cited in the last office action.
- 39. **As to claims 15 and 36,** French does not teach the step of wherein the flag value indicates the recovery will be accomplished by takeover by another server.

Chrabaszcz teaches the step of wherein the flag value indicates the recovery will be accomplished by takeover by another server (instance in which the primary server 102 has failed as indicated by the termination mark 310......detected the failure of the first server 102 Server 104 as the backup server, col. 8 lines 60 – col. 9 lines 15) is a function of the flag value stored in the non-volatile storage.

It would have been obvious to apply the teaching of Chrabaszcz to French's system because Chrabaszcz would provide a back up server to keep the system up running and providing services when a system failure occurs.

Art Unit: 2126

40. **As to claims 20 and 41,** French modified by Chrabaszcz teaches wherein the takeover (Chrabaszcz, server 104 as the backup server, col. 8 lines 60 – col. 9 lines 15) comprises fetching the stored in the non-volatile storage and rebuilding the in-memory data structures in another server using the state (French, one of the ordinary skill in the art can recognize that the data structures has to be rebuild in the in-memory in another server that has to be server trusted).

Response to Arguments

- 41. Applicant's arguments for claims 1 47, filed on 2/2/04, have been considered but they are not persuasive.
- 42. Applicant argued in substance that
- (1) Applicant argued that the applicant's invention execute code at the server nerver be lost while French teaches a change to the client side code Disconnected.
- (2) French does not disclose a method for continuing a CIFS session that request was part of following restoration of state to a server upon reboot, as recited in claims 1.

 French creates a new session based on lost session.

Page 11

- (3) French does not appear to determine the type of interruption or whether the interruption is elective or nonelective, as recited in claims 8, 9, 13, 14.
- (4) French is discussing the "client side" and not the "server side" as recited in claims 12 and 16.
- (5) French does not teach "rebuilding in-memory data structures of the server device" as recited in claims 18, 20, and 41.
- (6) French does not disclose "determining whether a server shutdown is elective or nonelective as recited in claims 6 and 7.
- (7) There is no indication that it is a flag value as recited in claim 8.
- (8) Chrabaszcz or French does not teach maintaining the intergrity of a session during such a takeover sever as recited in claims 20 and 41.
- (9) Neither French nor Chrabaszez teaches maintaining a CIFS session across the reboot of a server as recited in claim 44.
- 43. Examiner respectfully disagreed with applicant remarks.

As to point 1, examiner found no where in the independent claims that applicant claimed executes code at the server.

As to point 2, French teaches a method for continuing a CIFS session that request was part of following restoration of state to a server upon reboot (when the machine is rebooted, the mechanism can reestablish the connections, col. 6 lines 40 - 48). "Reestablish" or "replay" means that continue. It can not be read as creating a new session. Also, French does not teach creating a new session after being interrupted (col. 6 lines 20 - 48).

As to point 3, French teaches the interrupt is elective or nonelective (an interrupt is positive or negative, col. 6 lines 10 - 20).

As to point 4, claims 12 and 16 depend on claim 1 that claimed the method of operating a file server not at file server.

As to point 5, French teaches rebuilding in-memory data structures (inherent when the data structures is saved in a disk such that when rebooted, col. 6 lines 40 – 48).

As to point 6, examiner sees that applicant argued the limitations that are not claimed in claims 6 and 7.

Art Unit: 2126

Page 14

As to point 7, examiner sees that applicant argued the limitations that are not claimed in claim 8.

As to point 8, examiner sees that applicant argued the limitations that are not claimed in claims 20 and 41.

As to point 9, examiner sees that applicant argued the limitations that are not claimed in claim 44.

Conclusion

44. Applicant's amendment for claim 43 necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

Art Unit: 2126

324 Page 15

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

45. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Phuong N. Hoang whose telephone number is (703)

605-4239. The examiner can normally be reached on Monday - Friday 9:00 am to 5:30

pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Meng-Ai An can be reached on (703)305-9678. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

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Ph

April 19, 2004

MENG-AL T. AN

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